



City Council Report

Date: August 26, 2019
To: City Council
Through: Kari Kent, Assistant City Manager
From: Beth Huning, City Engineer
Rob Kidder, Assistant City Engineer
Subject: Mesa-Falcon Field Airport (FFZ)
Runway 4L-22R Acute Angle Taxiways
City Project No. CP0945 (District 5)

Purpose and Recommendation

The purpose of this report is to provide information to the Council concerning the results of the bids received for Mesa-Falcon Field Airport (FFZ) Runway 4L-22R Acute Angle Taxiways project (See Exhibit "A" for the project location).

Staff recommends that Council award a contract for this project to the lowest responsible bidder, Combs Construction Company, Inc., in the amount of \$1,141,168.16, and authorize a change order allowance in the amount of \$114,116.82 (10%).

Background

The proposed project consists of runway safety and operations improvements included in the Falcon Field Airport Master Plan and Runway Safety Action Plan, and in the Federal Aviation Administration (FAA) Runway Incursion Mitigation Program. On July 8, 2019, Council accepted an Airport Improvement Program (AIP) Grant Agreement from the FAA that provides 91.06% of the necessary construction funding for this project.

Discussion

This project is to construct two new acute angle exit taxiways connecting Runway 4L/22R to parallel Taxiway 'E'. These new connecting taxiways will be designated as 'E2' and 'E5'. The optimal intermediate exit points along the runway were determined based upon 1) a design concept study of landing lengths needed by the majority of aircraft types that use Falcon Field Airport and 2) input from the FAA Air Traffic Control Tower (ATCT).

The results of this study indicate that operational benefits will be achieved by enabling aircraft to safely exit the active runway sooner upon landing. Positioning the exits symmetrically will further enhance safety by providing additional uniform visual cues to pilots landing in either direction (Runway 4L or Runway 22R). The proposed new acute angle taxiways will further encourage the use of Runway 4L/22R (north runway) for flight training operations in accordance with the *Falcon Field Fly Friendly Program* strategies.

Once underway, the project construction is anticipated to last no more than 4 months.

Temporary impacts will include closure of Runway 4L/22R and Taxiway 'E' while the new connecting taxiways are constructed, which will result in increased air traffic for the adjacent Main Runway 4R/22L and parallel Taxiway 'D', which will both remain open. All work is on airport property, with no traffic restrictions on public streets. Temporary restrictions for air traffic have been coordinated with the FAA air traffic control tower staff, and they concur with the proposed project.

Alternatives

An alternative is to not award this contract for the proposed improvements. This is not recommended because the runway safety and operations improvements would not be implemented as recommended in Falcon Field's Runway Safety Action Plan. Additionally, FAA and ADOT funding may not be available in the future if this project is deferred.

Fiscal Impact

The total authorized amount recommended for this project is \$1,255,284.98 based upon the lowest responsible bid of \$1,141,168.16 plus an additional \$114,116.82 (10%) as a change order allowance. This allowance will only be utilized for approved change orders.

FAA will reimburse the City for 91.06% of the eligible project costs. Falcon Field is also applying to the Arizona Department of Transportation, Aeronautics Group (ADOT) for a matching grant to fund 4.47% and the Airport Enterprise Fund will fund the remaining 4.47%. If an ADOT grant is not received, Falcon Field will fund the entire local match of 8.94%, with funding available from the adopted Falcon Field FY 2019-20 Capital Program.

Coordinated With

Falcon Field Airport and the FAA concur with this recommendation.

CITY OF MESA
MESA, ARIZONA

MESA-FALCON FIELD AIRPORT (FFZ)
RUNWAY 4L-22R ACUTE ANGLE TAXIWAYS
FEDERAL AIP 3-04-0023-029-2019
ADOT GRANT NO. E0M__ 01C
DAVIS BACON WAGES APPLY

PROJECT NO. CP0945

Tabulation of Bids Received, Thursday, May 23, 2019, at 3:30 PM.

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|-------------------------------------|---------------------|
| ENGINEER'S ESTIMATE | \$876,299.38 |
| 1. Combs Construction Company, Inc. | \$1,141,168.16 |
| 2. Blucor Contracting, Inc. | \$1,179,447.25 |